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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/604,240	07/03/2003		Mark T. Stewart	1372.47	1239	
21901	7590	06/25/2004		EXAMINER		
SMITH & 1	HOPEN I	PA	LARKIN, DANIEL SEAN			
15950 BAY SUITE 220	VISTA D	RIVE	ART UNIT	PAPER NUMBER		
CLEARWA	TER, FL	33760	2856			
				DATE MAILED: 06/25/2004	DATE MAILED: 06/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/604,240	STEWART, MARK T.				
	Office Action Summary	Examin r	Art Unit				
		Daniel S. Larkin	2856				
Th MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Externanter - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a reply be ting. In the statutory minimum of thirty (30) day in the statutory may be statutory may be statutory of the statutory	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on _	.					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ ⁻	This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5)⊠ 6)□ 7)⊠	Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 9 is/are allowed. Claim(s) is/are rejected. Claim(s) 1-8 is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)⊠ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>03 July 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen		_					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date						

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DETAILED ACTION

Oath/Declaration

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It was not executed in accordance with either 37 CFR 1.66 or 1.68. Specifically, applicant has failed to execute, i.e. sign, the declaration.

Drawings

- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5)
- because they do not include the following reference character(s) mentioned in the description:

Reference designation "Table 1" does not appear within Figure 1 as suggested by the disclosure on page 9, paragraph [0039], line 4.

3. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct

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any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. The disclosure is objected to because of the following informalities:

Page 8, paragraph [0037], line 1: The term "illustration" should be corrected to read -- illustrating --. Appropriate correction is required.

Claim Objections

5. Claims 1-8 are objected to because of the following informalities:

Re claim 1, claim line 7: The conjunction -- and -- should be inserted after the term "density".

Re claim 8, claim line 20: A -- semicolon -- and the conjunction -- and -- should be inserted after the designation "2.65g/cc". Appropriate correction is required.

Allowable Subject Matter

6. The following is a statement of reasons for the indication of allowable subject matter:

Prior art was not relied upon to reject claims 1-9 because the prior art fails to teach and/or make obvious a method of detecting and quantifying non-aqueous phase liquids in soil/subsurface comprising calculating the non-aqueous phase liquid from a

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measured bulk dielectric constant and an estimated bulk porosity in combination with all of the remaining limitations of base claims 1, 8, and 9.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The prior art to US 5,319,966 (Jackson et al.) discloses a method of determining the location and composition of liquid contaminants in geologic formations.

The prior art to US 4,654,598 (Arulanandan et al.) discloses a soil probe using dielectric methods to predicting porosity and for detecting hydrocarbons and hazardous waste materials.

Any inquiry concerning this communication or earlier communications from the 8. examiner should be directed to Daniel S. Larkin whose telephone number is 571-272-2198. The examiner can normally be reached on 8:00 AM - 5:00 PM Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Hezron Williams can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Larkin AU 2856 23 June 2004

DANIELS.LAPKIN PRIMARY EXAMINER